~~~~~~	Chronic	c hallucinations in organic brain diseases. Vop. psikh. no.4: (MIRA 15:2) (BRAIN_DISEASES) (HALLUCINATIONS AND ILLUSIONS)				
	273-283	(BRAIN_DISEASES)	(HALLUCINATIONS AND ILLUSIONS)			

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"Clinical psychiatry" by William Mayer-Gross, Eliot Slater and Martin Roth. Reviewed by E. Shternberg. Zhur. nevr. and Martin Roth. Reviewed by E. Shternberg. Zhur. 15:3) i psikh 61 no.8:(see 1960 LC author list) 161. (MIRA 15:3) (PSYCHIATRY)

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SHTERNBERG, E.

"Gerebrospinal fluid pressure. Studies on the physiology, pathophysiology and the effect of medicine on the dynamics of the cerebrospinal fluid" by R. Hemmer. Reviewed by c. Shternberg. Zhur. nevr. i psikh 61 no.8:1269-1270 '61.

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Cainical and electroencephalographic studies of atrophic diseases of the brain. Zhur. nevr. i psikh. 62 no.1:114-124 162.

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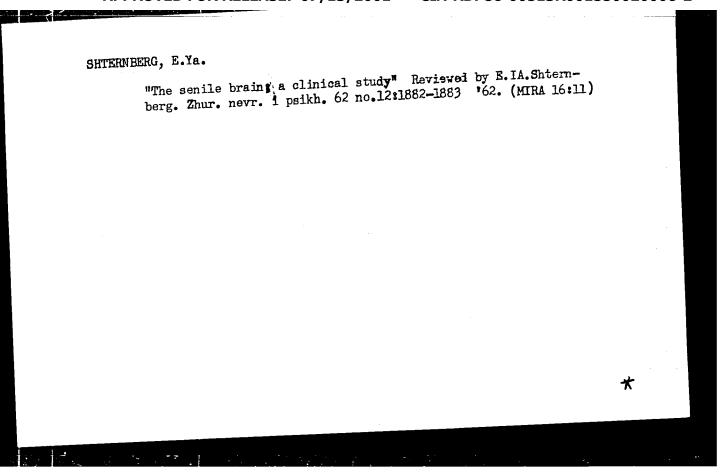
(PSYCHOLOGY, PATHOLOGICAL)

(KRANZ, HEINRICH)

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Clinical and electroencephalographic studies of patients with Huntington's chorea and their relatives. Zhur.nevr. i psikh. 62 no.12:1843-1854 *62 (MIRA 16:11)

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(Precast concrete construction)

(Hoisting machinery)

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63.

1. Kafedra mikrobiologii Tomakogo mediteinakogo instituta.

SHTERNEERG, I., professor (Sverdlovsk)

SHTERNEERG, I., professor (Sverdlovsk)

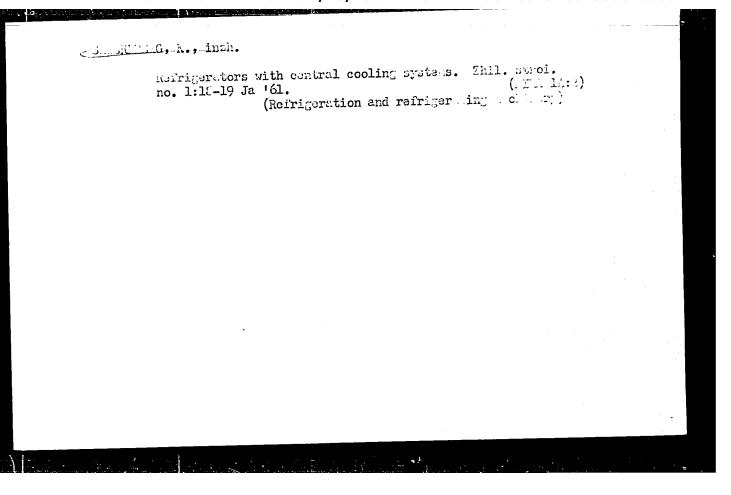
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Silicalcite tile and other products for rural construction.

Bud.mat.i konstr. 4 no.4146-49 Jl-Ag '62. (MIRA 15:8)

(Sand-lime products) (Farm buildings)

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no.4:5 Ap '62. (MIRA 15:8)

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(Odessa Province-Building materials industry)

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New solutions in designs for unique cable cranes. Prom. stroi.
i inzh. soor. 5 no.5:58-60 S-0 '63. (MIRA 16:12)

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(MIRA 13:12)

1. Iz 1-y detskoy bol'nitsy Vimitsy (glavnyy vrach K.M. Kadish).

(LIPS-DISEASES)

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Jenyth.	s Of Solid Fuels) Moscor,	Sponsoring Agency: Vessoyumnyw khimicheshnym obshchestwo im. D. I. Mendelbywww. Noskowskoyw otdelemiyw.	Rap, Edm.: N. M. Karrwayev, Corresponding Nember, USSN Meadersy of Sciences, N. O. Tittor, Doctors of Chemical, Sciences, Ed. of Philishing Ecuses: A. L. Bankvitser; Tech. Ed.: I. F. Ent'sdin.	NOME: This collection of articles is intended for geochemists, geologiand other specialists interested in the general of solid stants.	is of solid mineral fuel, -Union Conference on this e decomposition of mero midies on the origin of he aral components in the co	forming process. The characted composition of yest and the organic mess of conditions of ". Adjugated and shown in a number of tables. Estonian Tablaration oil shakes are analyzed as are the brown coals of the Darpopetrorsh basin. He two-proping and carbonization of coal found to different parts of the Darbonization of the Character of the United the United to discuss of the United Character of the Character of the United to discuss of the Character of the Char	OLI Shale	Baltic Kukkersite 011	Lararnyry, H. M., and I. A. Tilman. Lignite and Initial Stages of Conl. Formation	Sympton, Y. T. Origin of Brown Coal Found in the Despropatrorak Basis of the Drainian Ses.	descrote Coal Found on a Urala	narracteristics of Some	chily Carbonized Coal Bogoslovskoys and f the Morthern Urals	restion of Coal Bub- an Platform	der Which Coal Strata	g Me tamorphies	Phiembers, 1, 16. Changus in Microscopic Characteristics of Clarain Coal of the Lunbass During Metamorphism		bestool Questions Com-	cerning the Coll-forming Process Mary B. L. Darneteritates of the Process of Transformation of Parent Marter Into Prepare Combustible Minerals and the Commention of Rases Characteristics With the Principal Properties of Combustible Minerals	stance as Ascertained by	ante hase of Hart and	roperties of Bests	11-forming Process	Mirowaldy, densits of
Institut goryuchikh iskopayenyth	1 goryuchikh iskopayemykh (Genesis Of Solid Fuels) Mo 358 p. Firmia silp inserted. 2,000 copies printed.	guenaye khindeheskaye o	yev, Corresponding Members, Chemical Editories; Ed. I. F. English.	of articles is intende interested in the genes	of papers on the generantion at the 2nd Allier acids and pest from the d in connection with at the role of certain with	shown in a number of ta are the brown coals of mitation of coal found are also discussed. The	of Estonian Kukkersite	On the Question of the Origin of Baltic Kukharsite 011	A. Vilman. Lignite and	of Brown Coal Found in t	gular Carbonisation of D the Central and Morthern	ographic and Chemical Cl Ichanskoye and Bogoalow	ous of Formation of Silg orn Coal Reain ism of Brown Coal From I of the Eastern Flank of	e Conditions of Transfor stern Part of the Russia	Possible Conditions Und et the Kusnetsk Besin	Evolution of Humic Coal During Matemorphis	ges in Microscopic Charm Notemorphism	General of Juraseic Coal at Ture	Organic Bullur in Coal. I. Some General Physical and Chemical Questions Com	ing Processics of Its Brocess of Its Shustible Minerals and the Principal Properties	satures of the Goal Beha	Rature of the Basic Org. During Metamorphism	s in the Structure and I	Role of Mineral Elements in the Coal-forming Process	. I. Rubinshiayn, and A. E. Nie Compounds Contained in Coal
Akademlyn nauk 19958. Ins	Generia tverdykh goryuchi BEER, 1959. 358 p. P	ponsoring Agency: Yseso Noskovskoye otdeleniye	sap, Eds.: N. M. Karsve N. G. Titov, Doctor of Bankvitser; Tech. Ed.:	FURTORE: This collection and other specialists	COVERAGE: The collection been prepared for pres The formation of humor and plants is discusse and brown cost. and on	forming process. The coal if nalyzed and shalos are snalyzed as between the two parties and carbo and the Unranian SER	articles. Rendscyp, Th. T. Genesis of Estonian Rukbarsite 011 Shals	Tomina, A. S. On the Qui	Formation	of the Urratulan SEE	Cherromnov, Ya. M., Irragular Carbonisation of Mesonoic Coal Found on the Eastern Plank of the Central and Northern Urals	logolymbors, L. I. Petrographic and Chemical Characteristics of Mon Types of Coal From Volchanskoye and Rogoslovskoye Deposits	Kirpikry, Y., Y., Conditions of Formstion of Slightly Carboniased Cost. From Southern Ural Brown Cost Beats Kirpikry, J., Metasorphism of Brown Cost. From Social residents and Explored to President of Provinces of the Section Flank of the Sorthern Urals	himdorov, A. I. declogic Conditions of Transformation of Soal Bub- stance in the Southeastern Part of the Russian Flatform	origoriyev, M. Tu. Some Possible Conditions Under Which Coal Structs Could Have Deep Pursed at the Kunstak Main	Lahrandra, R. I. Reclut	Mtembers I To Chan	Pi '	Gebler, I. V. Organic B.	cerning the Coal-form nor, H. I. Characterist Matter Into Present Co Characteristics With t	mesor, I. I. Genetic Patures of the Coal Schrie Petrographic Platings	Enharin, V. I. Chemical Nature of the Resis Organic Mass of Hard Priver Doal and Changes During Natementalism	hitharence, T. A. Champs in the Structure and Properties of Basis Acids During the Coal-forming Process	Titor, N. O. Role of Min	Endnakty, Y. 8., A. I. Rabinahtyn, and A. E. Byrovakty. Organic Sulfurous Compounds Contained in Coal

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Iron occurrences in recent sediments of Lake Punnus-Yari. Izv. AN SSSR. Serageol. 28 no.3:93-101 Mr '63. (MIRA 16:2)

1. Geologicheskiy institut AN SSSR, Moskva.

(Krasnoye Lake (Leningrad Province)--Iron)

Structure of the crown of monopodial and sympodial ligneous plants. Biul.

MOIP. Otd.biol. 58 no.1:63-67 '53.

(Botony--Anatomy)

I-5

SHIP MARKE, M.B.

USSR/Physiology of Plants. Growth and Development.

Abs Jour: Ref. Zhur-Biol., No 1, 1958, 1177.

Author : Shternberg, M.B.

: The Influence of Location of the Leaf Embryo of a : Moscow University. Inst

Plagiotropic Shoot on the Growth of the Leaf Membrane. Title

Orig Pub: Byul. Mosk. o-ve ispyt. prirody otd. biol., 1956, 61, No 3,

51-59.

Abstract: In Aleurites fordii and Broussonetia papyrifera (Western Georgia) Morus Nigra and M. alba (Moscow) an anisophyllia was discovered, exhibited not only in the measurements but also in the shape of the leaves located along the upper and lower sides of the plagiotropic shoots. The lower tung tree leaves differ from the corresponding upper ones by their great laciniation, while with the

milberry and the broussometia it is the upper leaves which are more laciniated. However, in all of the cases studied the area

: 1/2 Card

-1-

USSR / Plant Physiology. Respiration and Metabolism.

Ι

Abs Jour : Ref Zhur - Biol., No 9, 1958, No 38890

Author

: Shternberg, M. B., Kulikova, R. F.

Inst

: Not given

Title

: Feculiar Physiological Features of Plagiotropic Shoots

of Fruit Trees.

Orig Pub : Botan Zh, 1957, 42, No 7, 1079-1087

Abstract : In six-year old Antonovka apple treesthat had not yet borne fruit, at the Moscow fruit and berry-growing experimental station in Biryulev vertical shoots were bent to the horizontal position before the onset and at the end of growth. Studies were made of the effect of the bending upon the growth of the shoots and the content of protein and total N, soluble carbohydrates and starch in the leaves. The bending did not lead to any increase in the proportion of C:N, which is to be interpreted as the

Card 1/2

USSR / Plant Physiology. Respiration and Metabolism.

Ι

Abs Jour : Ref Zhur - Biol., No 9, 1958, No 38890

Abstract : absence of retardation of movement of the substances. shoots, there appears a delayed leaves of the bent-off accumulation of starch (at the end of the vegetative period), a decrease in starch content, particularly of total and protein N in the leaves of the upper layers, the transformation of the basi-petal gradient of the N-content into the acropetal one and the weakening of the polarity in the distribution of carbohydrates. It is assumed that the in the distribution of organic changes observed substances along the shoots are dependent on the change of the distribution gradient of the grown substances. The authors reach the conclusion that physiological peculiarities of the bent-off shoots are explainable not in terms of mechanical constriction of the channels, as was thought before, but by those of their horizontal orientation. Bibliography 23 titles.

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Gorrel F 163	lative inhibition of gr (Growth (Plants))	owth in plants. (Growth inh	Bot.zhur. 48 no.2: (MIRA 10) (ibiting substances)	273–286 5:4)
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BUTENKO, Raisa Georgiyevne; CHAYLAKHYAN, M.Kh., prof., otv. red.; SHTERNBERG, M.B., red.; PASHKOVSKIY, Yu.A., red.izd-va; TIKHOMIROVA, S.G., tekhn. red.

[Culture of isolated tissues and the physiology of the morphogeny of plants] Kul'tura izolirovamnykh tkanei i fiziologiia morfogeneza rastenii. Moskva, Izd-vo "Nauka," 1964. 272 p. (MIRA 17:4)

1. Chlen-korrespondent AN Arm. SSR (for Chaylakhyan).

BALASHEV, L.L., prof.; GRIGOR'YEV, N.G., kand. biol. nauk;

ZHURBITSKIY, Z.I., prof.; PETERBURGSKIY, A.V., prof.;

POPOV, P.V., kand. sel'khoz. nauk; RADKEVICH, P.Ye., prof.;

SOKOLOV, A.V.; TURCHIN, F.V., prof.; SHKONDE, E.I., kand.,

sel'khoz. nauk; SHTERNBERG, M.B., kand. biol. nauk;

VOL'FKOVICH, S.I., akademik, red.; KORNEYEV, N.Ye., kand.,

veter. nauk, red.; NAYDIN, P.G., prof., red.; PLESHKOV, B.P.,

kand. sel'khoz. nauk, red.; POPOV, I.S., akademik, red.;

ROMASHKEVICH, I.F., kand. sel'khoz. nauk, red.; RODE, A.A.,

prof., red.; ROZOV, N.N., prof., red. FATUYEV. M.R.; Anzh.,

red.;

[Chemicalization of agriculture; scientific and technical dictionary handbook] Khimizatsiia sel'skogo khoziaistva; nauchno-tekhnicheskii slovar'-spravochnik. Moskva, Nauka, 1964. 398 p. (MIRA 17:10)

1. Chlen-korrespondent AN SSSR (for Sokolov). 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Popov)

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Method for controlling the inoculum during biological oxidation of sorbitol into sorbose. Mikrobiological 29 no.1:146-149 Ja-F '60. (MIRA 13:5)

1. Nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut, Bukharest. (SORBITOL metab.) (SORBOSE metab.) (ACETORACTER metab.)
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### SHTERNBERG, O. A.

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Odonto price Electrical are Calibral to be solder and a sible for tripedinal Leuralgia. Such neurolgia often disappears after surgical interventions of various hinds in the region of the Sifth-Lorve branches affected. Cloudalgias are only apparently tripedinal neurolgia.

Schenk - Loosduinen

SO: Heurology Paychiatry Section VIII Vol 3 No 7-12

So: same article is item 17, 838 of 1949 Letopis' Zhurnal'nykh Statey (SHTERNBERG, O. A.)

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MAURIT, M.Ye.; SHTERNBERG, R.P.; PAKHOMOV, A.M.; BAZILEVSKAYA, G.I.; SMIRNOVA, G.V.; PHEOBRAZHENSKIY, N.A.

Synthesis of optically active of -alkyl- /-butyrolactone-%-carboxylic ( > -alkylparaconic) acids. Zhur.ob.khim. 30 no.7:2256-2259 J1 60. (MIRA 13:7)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii.
(Paraconic acid)

SHTERNBERG, S.

Shternberg, S. -- "Investigation of the Anode Process in the Electrolysis of Cryolite-Alumina Melts." Cand Tech Sci, Moscow Inst of Nonferrous Metals and Gold, Moscow 1953. (Referativnyy Zhurnal--Khimiya, No 1, Jan 54)

So: SUM 168, 22 July 1954

KROYCHUK, L.A.; SHTEYERMAN, V.A.

Problem of the thermodynamic probability of the formation of silicate tricalcium in the system calcium oxide - pseudo-wollastonite. Zhur. VKHO 8 no.5:581-582 '63.

(MIRA 17:1)

1. Vsesoyuznyy gosudarstvennyy nauchno-issledovateliskiy institut tsementnoy promyshlennosti.

### SHTERNBERG-RAAB, A., doktor

Contemporary state and future treatment of strabismus in Hungary. Uch.zap. GNII glaz.bol. no.7:183-187 '62. (MIRA 16:5)

SHTERNBERK, B., doktor.

Czechoslovak astronomers attend the opening of the Pulkovo Observatory in the U.S.S.R. Biul. VIIR no. 10:289-295 (MIRA 8:2) Ag-0 '54.

1. Direktor Astronomicheskogo instituta Chekhoslovatskoy Akademii nauk,

(Pulkovo Astronomical Observatory)

CZECH/37-59-4-14/16 Jaromir Broz, and Jiří Sternberk AUTHOR:

TITLE:

Letter to the Editor: On the Temperature Dependence of the Coefficients of Rectangularity of Manganese-Magnesium

Ferrites 1

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 4,

ABSTRACT: The coefficient of rectangularity is defined either by the relative remanence  $k = B_T/B_{max}$  or by the ratio  $R_S$ of the induction in half the negative field to the induction in the maximum field. (Ref 1) have studied the dependence of the coefficient Wijn and co-workers of rectangularity on temperature within a small range.
Our aim was to study this dependence over a larger range. We have chosen three ferrites whose chemical structure is given in the figure caption. The maximum field used was 35 Oe. The results of our measurements of Rs max

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and k are shown in the figure. It is obvious that the temperature dependence of the two coefficients of rectangularity differs considerably. The coefficient slowly and monotonously rises with decreasing temperature in all samples. The coefficient  $R_{s\ max}$  basically

CZECH/37-59-4-14/16

Letter to the Editor: On the Temperature Dependence of the Coefficients of Rectangularity of Manganese-Magnesium Ferrites

decreases with temperature, but shows definite minima in two of the three samples. We have attempted to explain these curves from the magnetic crystalline anisotropy. The anomalies in the temperature dependence of Rs max cannot be explained from the behaviour of the other basic parameters of the magnetisation curve. It will, therefore, be necessary to make a more detailed study of the hysteresis curve in the second quadrant (Ref 2).

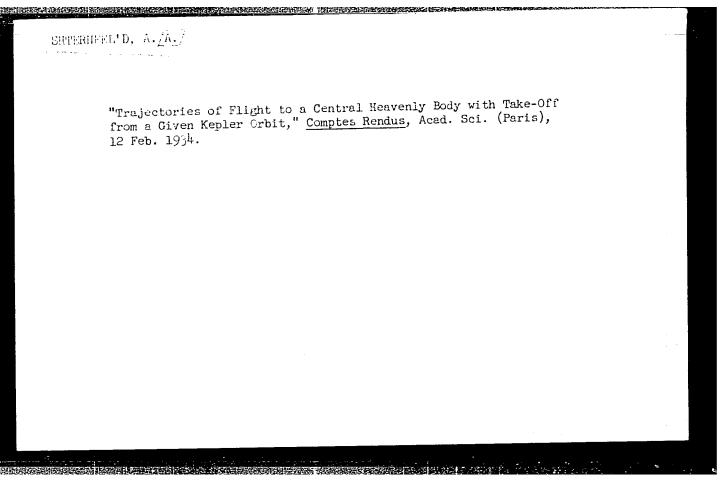
2/2

Card

There are I figure and 2 German references.

ASSOCIATION: Ústav technické fysiky ČSAV, Praha (Institute of Tech. Physics, Academy of Science, Prague)

SUBMITTED: February 19, 1959



### SHTERNFEL'D, A. A.

Vvedenie v kosmonavtiku. Perevod s frantsuzskogo iazyka s rukopisi. Moskva, Glav. red. aviats. lit-ry, 1937. 317 p., diagrs.

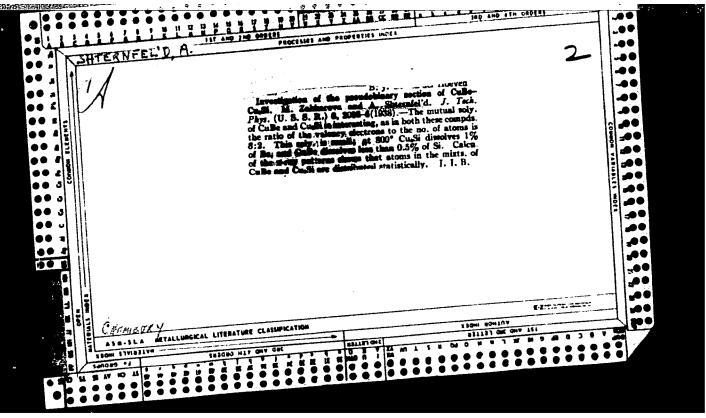
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Includes bibliographies.

Title tr.: Introduction to cosmic aeronautics.

TL790.55

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.



STERNFELD, A. The

PA LT116

USSR/Rockets - Fuels

1945

"Fuel Consumption by a Rocket Passing Up through the Atmosphere with Constant Acceleration." A. Stermfeld, 4 pp

"CR Acad Sci" Vol XLIX, No 9

A generalization of the author's previouslydeveloped method of computing the amount of fuel required to overcome the resistance of the air to the flight of a rocket moving with constant acceleration away from the earth's surface

4T116

### SHTERNFEL'D, A. A.

Polet v mirovoe prostranstvo. Moskva, Gostekhizdat, 1949. 139 p., illus., port.

Title tr.: Flight into the cosmos.

TL789.S5

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

SHTEPNFEL'D, A.

Interplanetary Voyages

Route of interplanetary ships, Tekh. molod. 20 No. 5, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

### STERNFELD, A.

"In the small moon; a short story." P. 14. AVIATIA SPORTIVA, Vol. 4, no. 2, Feb. 1953. Bouresti, Rumania.

SO: Monthly List of East Eurpean Accessions, L.C. Vol. 2, No. 11, Nov. 1953, Uncl.

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Interplanetary voyages. Eryl.rod. 4 no.8:18-20 Ag '53. (MLHA 6:7)

(Interplanetary voyages)

- 1. CHTERNFEL D, A.
- 2. USSR (600)
- 4. Interplanetary voyages
- 7. On the eve of a flight into space, Tekh. molod. 21 No. 2, 1953

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The LM-3 flies to the moon. p. 272. TRIDEA TLAUTI. (Svam pro spolupraci s armadou) Praha. No. 12, June 1954.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

SHTERNFEL'D, A., laureat mezhdunarodnoy pooshchritel'noy premii po astronavtike.

Paradoxes of cosmic navigation. Tekh.molod. 22 no.1:26-29 Ja *54.

(MLRA 7:1)

(Interplanetary voyages)

SHTERNFEld, A.A. USSR/Ae::onautics - Space travel Card 1/1 : Pub. 86 - 2/38 Authors Shternfel'd, A. A. Title Problems of cosmic flight Periodical: Priroda 43/12, 13-22, Dec 1954 Abstract Full mathematical data are given for rocket speeds sufficient to counterbalance the earth's attraction, distances required for an artificial satellite and for convenient observation by having the earth appear motionless from the satellite. Similar mathematical data are presented for flight to the moon and the planets, along with geometrical factors involved. Detailed explanations accompany all the figures. The problems of existence beyond the range of the earth's atmosphere and those caused by the possibility of encountering meteorites are discussed. Diagrams; graphs. Institution: Submitted

SHTERNFEL'D, Ario Abramovich; PLOHSKIY, A.F., redaktor; GAVRILOV.S.S.,

teknnicheskiy redaktor

[Interplanetary flights] Meshplanetnye polety. Moskva, Gos. izdvo teknniko-teoret.lit-ry, 1955. 54 p. (Nauchno-populiarnaia
biblioteka, no.82)

(Interplanetary voyages)

(Interplanetary voyages)

AID P - 2853

Subject

: USSR/Aeronautics

Card 1/1

Pub. 58 - 12/19

Author

Shternfel'd, A.

Title

: The flight to the moon

Periodical : Kryl. rod., 9, 19-20, S 1955

Abstract

The author describes what a flight to the moon would look like on the basis of present knowledge.

Some figures are given.

Institution: None

Submitted : No date

SHTERNELL'D.A., laureat Mezhdunarodnov pooshchritel'noy premii po

Orbital ships. Tekh. mol. 23 no.5:28-31 My '55. (MLRA 8:6) (Space stations)

SHTERNFEL'D,A.A. (Moscow)

Astronautics; on the 20th anniversary of K.E.TSiol'kovskii's death. Fiz. v shkole 15 no.4:7-19 Jl-Ag'55. (MIRA 8:10)

(TSiolkovskii, Konstantin Eduardovich, 1857-1935) (Interplanetary voyages)

SHTERNFEL'D, A., laureat Mezhdunarodnoy pooshchritel'noy premii po astronavtire.

Around the world in 88 minutes. Vokrug sveta no.10:18-24 0 '55.

(Space stations) (MLRA 9:1)

SHTERNYEL'D. A.A.; MEZENTSEV, V.A., redaktor; CAVRILOV, S.S., tekhnicheskiy redaktor

[Interplanetary flights] Mezhplanetnye polety. Izd, 2-oe. Moskva.
Gos. izd-vo tekhniko-teoret. lit-ry, 1956.47 p. (MIRA 9:10)

(Interplanetary voyages)

SHTERNFEL D Ario Abramovich; LEVANTOVSKIY, V.I., redaktor; NEGRIMOVSKAYA, R.A., tekhniqheskiy redaktor

[Artificial earth satellites] Iskusstvennye sputniki zemli.
Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 179 p.

(Artificial satellites) (MLRA 10:3)

Acknowless PHASE I BOOK EXPLOITATION

340

Levantovskiy, Vladimir Isaakovich.

Rasskaz ob iskusstvennykh sputnikakh (The Story of Artificial Satellites) Moscow, Gostekhizdat, 1957, 95 p. 200,000 copies printed.

Eds.: Rakhlin, I. Ye.; Tech. ed.: Brudno, K. F.

PURPOSE: This book is published for the purpose of providing the public with information regarding artificial earth satellites.

The author attempts to answer, in simple terms, some of the many questions laymen are likely to ask about artificial earth satellites, COVERAGE: such as: What is an artificial satellite? How does it differ from other flying bodies? Since it has no engine, why does it not fall to the earth? How is it placed in orbit? How is it constructed? What is its use? What is its future? etc. For more technical explanations, the reader is referred to the scientific literature, particularly A. A. Shternfel'd's book "Artificial Earth Satellites", 1956. In the

Card 1/12

340 The Story of Artificial Satellites (Cont.) last section, the author recommends: Vasil'yev, M. V., "Journey Into Space", 1955; Kaznevskiy, V. P., "Scouts of Interplanetary Space", 1957; Pobedonostsev, Yu. A., "Artificial Earth Satellite", 1957; Shternfel'd, A. A., "Flight Into Space", 1949; Shternfel'd, A. A. "From Artificial Satellites to Interplanetary Flight", 1957; Shternfel'd, A. A., "Artificial Satellites", 1957. To indicate Flight", 1957; Shternfel'd, A. A., "Artificial Satellites", 1957. the scope of the book, the captions of the 29 figures it contains are listed below, following the Table of Contents. The book contains 9 Soviet references. TABLE OF 3 Preface CONTENTS: 4 Introduction The Artificial Celestial Body Ch. I. 6 1. What is a satellite? 9 Orbits of artificial satellites 2. 12 What speeds can a satellite have? 14 How does a satellite move along its orbit? Special features of the movement of artificial 16 satellites Card 2/12

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PHASE I BOOK EXPLOITATION

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# Shternfel'd, Ario Abramovich

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Ot iskusstvennykh sputnikov k mezhplanetnym poletam (From Artificial Satellites to Interplanetary Travel) Moscow, Gostekhizdat, 1957. 125 p. 100,000 copies printed.

Ed.: Rakhlin, I. Ye.; Tech.Ed.: Gavrilov, S. S.

PURPOSE: This book is written to interest and inform the public in artificial satellites, their development and uses, and in interplanetary flight.

COVERAGE: In the preface, the author reports on the development of astronautics, on the first artificial satellites, and on the plans for further sputniks in connection with the International Geophysical Year. The book has 25 figures and 2 tables. The captions of the figures whose translations follow are indicative of the scope of the book:

(Fig.1) Diagram of the solar system; (Fig.2) Relative dimensions of the Sun and the planets; (Fig.3) With increases

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while the curvature of its trajectory decreases. Having attained circular velocity (upper orbit), the rocket flies parallel to the Earth's surface and becomes its satellite; (Fig. 4) The attraction of the Earth decreases in the same way as the illumination of objects decreases, that is, in proportion to their displacement from the light source; (Fig. 5) Paths of a series of space ships; (Fig.6) A liquid-fuel rocket; (Fig.7) A composite rocket; (Fig.8) The first Soviet artificial satellite of the Earth (photographed on its ring stand); (Fig.9) Proposed design of an artificial satellite. In the lower part of the artificial satellite a condition of weightlessness prevails; in the upper part, due to the rotary motion, artificial gravity is experienced; (Fig.10) One of the possible variants of an orbital rocket; (Fig.11) How the weight of a body changes during the time of a space flight; (Fig. 12) Creation of artificial gravity on a space ship; (Fig.13, center) Proposed design of a space ship for exploration of the moon (bird's eye view); (Fig.13, I) Departure of a ship from the artificial Earth satellite; (Fig.13, II) The ship becomes an artificial satellite of the Moon; (Fig.13, III) Path of the ship around the Moon; (Fig.13, IV) Card 2/7

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The ship flies away from the Moon; (Fig. 13, V) Separation of gliders from the ship as it approaches the Earth; (Fig. 13, VI) Landing of space gliders on Earth; (Fig.14) An artificial satellite can move only in a plane passing through the Earth's center; (Fig.15) At the beginning of its ascent, the artificial satellite will move at minimum velocity with respect to the observer. But as the satellite rises, its angular velocity relative to the observer, that is, the velocity of the apparent motion of the satellite on the celestial sphere, will rapidly increase. Passing through the zenith above the observer, the artificial satellite will start slowing up its motion with respect to the observer, and as it starts to "set", its angular velocity will decrease to the magnitude of the start of its ascent; (Fig. 16) Increase of the diameter of the spherical segment of the Earth visible from the high-altitude flight of the artificial satellite. From an altitude of 500 km, the diameter of the visible spherical segment is 4,900 km, from an altitude of 2,000 km, it is 9,000 km, and from an altitude of 7,000 km, it increases to 13,700 km; (Fig.17) The trail made by the carrier rocket on the photographic plate for a prolonged exposure;

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Name

: SHIERNFEL'D, A. A.

Title

: Winner of an International Award for the Advancement of Astronautics

Remarks

: A. Shternfel'd has written an article entitled "Motion of the Artificial Satellite", which deals with the orbit of Sputnik I.

Source

: N: Krasnaya Zvezda, No. 238, 8 October 1957, p. 3, c. 1-6

#### CIA-RDP86-00513R001550020006-2 "APPROVED FOR RELEASE: 07/13/2001

SHTERNFEL'D, A. A. Name

ting in Anglin sa ng maligit na banang tagai ka <mark>k</mark>atan wa isa

: Shternfel'd is the author of an article entitled "On Flight into Remarks

Space". The article discusses the problem of the rate of gas discharge and of fuel loads in rockets intended for space travel,

and their role in conveying space ships to planets.

: P: Wissen und Leben (Leipzig), No. 12, 1957, Special Appendix "Der Erste Schritt in den Kosmos" (First Step into Space), pp. 42-44 Source

#### 80789

sov/169-59-3-3103

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 3, p 149 (USSR)

AUTHOR:

Sternfeld, Ary

TITLE:

The Peculiarities in the Motion of the Earth's Artificial

Satellites

PERIODICAL:

Problemy, 1958, Vol 14, Nr 4, pp 260 - 268 (Polish)

ABSTRACT:

The article deals with the following orbiting periods of satellites sidereal, solar, synodic (in respect to the terrestrial observer) and "lunar". There are three characteristic orbital velocities for each of the average distances of a satellite from the earth's center: the circular velocity corresponding to the circular orbit, the maximum or parabolic velocity corresponding to the escape from the earth's sphere of gravity, and the minimum velocity causing a satellite to fall to earth. The article contains tables of all these velocities for distances of 1 to 50 earth radii. The minimum velocities were computed without considering the effect of the atmosphere. The article also deals with the angular velocity

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CIA-RDP86-00513R001550020006-2" APPROVED FOR RELEASE: 07/13/2001

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Shternfel'd, Ario Abramovich

Iskusstvennyye sputniki (Artificial Satellites) 2d ed., rev. and enl. Moscow, Gostekhizdat, 1958. 295 p. 75,000 copies printed.

Eds.: Levantovskiy, V.I. and Fel'dman, G.I.; Tech. Ed.: Akhlamov, S.N.

PURPOSE: This book is intended for the general reader.

COVERAGE: The author states that in this new edition the main stress has been given to problems of celestial mechanics and to problems of rocket engineering, which are the basic steps in satellite development. This book was published immediately after the launchings of the first Sputniks, and it does not include all the recent scientific developments connected with these launchings. Problems of remote control, radio communication, physiology and others were intentionally given secondary consideration. The following Soviet personalities are mentioned in

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